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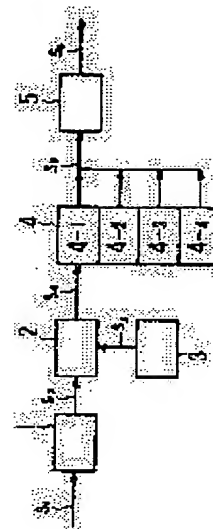
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(54) SIGNAL PROCESSOR

(57)Abstract:

PURPOSE: To improve the operation performance of an internal combustion engine by securing a correct signal all the time by sampling a signal and by finding and outputting the mean value of a fixed number of sampled values among stored sampled values (a constant number of values).

CONSTITUTION: Signal S1 of the sensor Karman-vortex flow meter of an internal combustion engine is waveform-shaped 1 to obtain pulse S2 of a period in inverse proportion to how much air is sucked, and clock pulses S3 from clock generator 3 are counted 2 to output signal S4 in proportion to each period of signal S2. Next, shift register 4 is stored with count values as many as four periods of signal S4 at any time and every time a new count value is supplied, the contents of register 4 are updated; and signal S5 from each stage of register 4 is inputted to averaging circuit 5, which sends mean value S6 to a controller as a sucked-air volume signal. Thus, the mean value of values covering four periods of signal S2 can be obtained, so that even if an abnormal value due to a noise, etc., would mix, its error will lessen by averaging.



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